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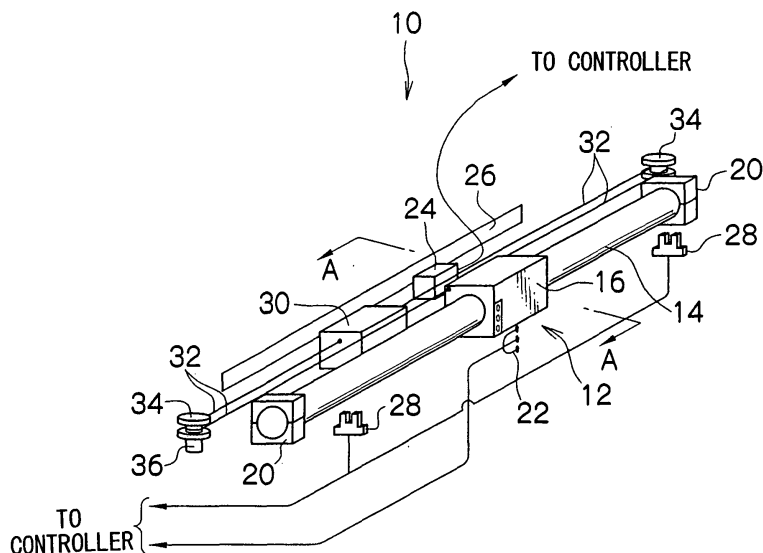
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(54) **Uniaxial drive unit and surface shape measuring apparatus using the same**

(57) There is provided a uniaxial drive unit (10) using a linear motor (12) having a fixed part (14) which is a rod-shaped magnet fixed to a unit body (18) and formed so that the N poles and the S poles are arranged alternately; and a moving part (16) which is a ring-shaped member having a coil member (40), fitted on the fixed part (14), and capable of moving along the fixed part (14). A driving

section (30) provided so as to be slidable in the uniaxial direction with respect to the unit body (18) is connected to the moving part (16) or a balance weight (31) fixed to the moving part (16) by a winding motion transmission member (32) via a winding motion transmitting support member (34) provided near one end or both ends of the unit body (18).

FIG.1





European Patent
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EUROPEAN SEARCH REPORT

Application Number
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The present search report has been drawn up for all claims			
Place of search Berlin		Date of completion of the search 5 September 2006	Examiner Popovici, M
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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